Technical Description and Operating Instructions

Impaq® 3000 Mk 2 Blu-ray

5.1 Home Cinema System with Blu-ray Receiver

Teufel

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General notes and information

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ABOUT DIVX VIDEO

DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND

This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX® VOD section in your device setup menu. Go to www.divx.com for more information on how to complete your registration.

Original packaging

If you wish to exercise your eight-week right of return, we ask that you be absolutely sure to hold onto the packaging. We can only accept the return of the device with ORIGINAL-PACKAGING.
Empty boxes are not available!

Complaints

In case of complaint we will need the following information to process your enquiry:

1. Invoice number

Can be found on the sales slip (enclosed with the product) or on the order confirmation received as a PDF document, e.g. 4322543.

2. Serial number or batch number

Located on the back side of the unit,
e.g. serial #: IL30009440122A-123

Many thanks for your support!

Contact

For questions, suggestions or criticism please contact our customer service department:
Lautsprecher Teufel GmbH
Gewerbehof Buelowbogen
Buelowstrasse 66
10783 Berlin (Germany)
Phone: 00800 - 200 300 40 (free of charge)
Fax +49 (0)30 / 300 930 930
E-mail: service@teufelaudio.com
www.teufelaudio.com

Safety notes

Caution icons

You will find the following caution icons in these instructions:

Danger **High risk!**
Failure to observe the warning may result in severe personal injury or death.

Attention **Moderate risk!**
Failure to observe the warning may result in property damage.

! **Minor risk!**
Points which should be observed when handling the unit.

Safety notes

Danger **Risk of electric shock!**
Faulty installation of electrical equipment or mains voltage which is too high can cause electric shocks.

- The device is only suitable for use with a power supply voltage of 220 V–240 V ~ / 50 Hz/60 Hz.
- If the unit's case or mains cable is defective or shows other signs of visible damage, disconnect the mains adapter immediately from the socket and do not operate the device.
- If the device produces smoke, a burning odour or emits unusual sounds, immediately disconnect it from the mains and discontinue use.
- The standby button does not disconnect the unit from the power supply. For this reason, connect it to an easily accessible socket so that you can quickly disconnect it from the power supply in the event of faults.
- Never open the unit's housing.
  Repairs may only be carried out by an authorised specialist workshop. Only parts which conform with the original device specifications may be used for repairs. There are electrical and mechanical parts in this unit which are necessary in order to avoid exposure to sources of danger.
- Do not insert any objects through the vents into the case.
- Only use the unit in indoor areas.
- Do not use the unit in damp areas and protect it from drops of water and splash water.
  Also take care not to stand vases or other containers of liquid on or near the unit in order to avoid liquid getting into the case. If water or other foreign objects do penetrate the case, immediately disconnect the power plug and if applicable, remove any batteries. Then send the device in to our service address.
- Never touch the power plug with wet hands.
- Check the unit regularly for damage.

Danger **Danger to children!**
Children can become trapped in the packing film when playing and suffocate.

- Do not allow children to play with the unit or the packing film. Danger of suffocation.
- Ensure that children do not remove small parts from the unit or take them off of the unit (e.g. control knobs or plug adapters). They could swallow the parts and choke.
  Never allow children to operate electrical devices unsupervised.

Danger **Danger to eyes and skin!**
If the disc tray is open and the lock is disabled, an invisible laser beam or visible laser light is emitted.

- Do not look into the beam, even if you are using optical instruments.

Danger **Danger to hearing!**
Loud noise may lead to hearing loss.
The subwoofer may emit very high sound pressure levels unexpectedly when it is suddenly triggered into activity by a bass impulse (especially in "Standby/ Auto On" mode) and if it has been set to full volume. This may have psychological consequences and also cause physical injury. Children and pets are particularly at risk.

- Set your signal source unit volume control to a low setting.
- When the volume is set high, always keep a certain distance from the unit and never place your ear directly on the speaker.
- To avoid damage to health, avoid extended listening at high volume.

Danger **Danger of chemical burns!**
Leaking battery acid may lead to chemical burns.

- Do not allow battery acid to come into contact with skin, eyes or mucus membranes. In case of contact with acid rinse the affected part immediately with plenty of plain water and if necessary see a doctor.

Danger **Danger of injury/damage!**
Incorrect location may result in damage.

- Do not use the device in vehicles without having it secured, in unstable locations, on wobbly tripods or furniture, on insufficiently dimensioned brackets etc. The device could tip or fall down and cause injury to persons or be damaged itself.
- Place the speakers in such a way that they cannot be knocked over inadvertently and make sure that the cables do not pose a trip hazard.
- Ensure that any wall mounting is performed in a professional manner.

- Only use suitable wall holders to mount the speakers. Verify the carrying capacity of the walls.
- Only set up the device and the speakers on stable, level surfaces.
- Do not place the unit near sources of heat (e.g. heaters, ovens, other heat generating equipment such as amplifiers etc.).

Danger **Danger of explosion!**

Batteries and rechargeable batteries may explode if overheated.

- Never attempt to recharge normal batteries.
- Do not expose batteries or rechargeable batteries to heat and never throw them in open fire.

Attention **Fire hazard!**

Improper use may lead to damage or fire.

- Do not place open flames such as burning candles or similar on the unit.
- Ensure sufficient ventilation.
- Do not place the unit in direct sunlight.
- Do not cover the vents with curtains, blankets, newspapers or similar. Heat build-up inside the unit can shorten the lifetime of the unit.

Attention **Risk of damage!**

Power overload due to lightning strike may damage or destroy the unit.

- If the unit is to be left unsupervised for a long period (e.g. during a holiday), or if a thunderstorm is forecast, disconnect it from the mains power supply.
- If the device is subjected to warm temperatures after being cold (e.g. after transport) condensation may occur inside of it.
  In this case, wait at least 2 hours before you connect and activate the device.
- Old, used batteries may leak.
  In case of prolonged absence remove the batteries from the remote control.

Attention **Disk of damage!**

Improper use may lead to damage.

- Only connect external devices (such as a WLAN router) if they have been turned off and the Impaq 3000 Mk. 2 has also been disconnected from the power supply.

Proper use

Only use the unit as described in these operating instructions. Any other use will be deemed as not in accordance with the instructions and may lead to damage to property or even persons.
The manufacturer accepts no liability for damage caused by use not in accordance with the instructions.
The unit is intended for private use.

Before operating the unit for the first time please read the safety notes and operating instructions carefully. This is the only way to use all functions safely and reliably.
Keep the operating instructions safe and pass them on to anyone who may own the unit after you.

Overview

Product contents

① 1 x 5.1 Blu-ray receiver IP 3000 BR Mk 2

② 4 x front/rear speakers IP 3000 FR

③ 1 x center speaker IP 3000 C with table stand

④ 1 x subwoofer IP 3000 SW

⑤ 1 x remote control

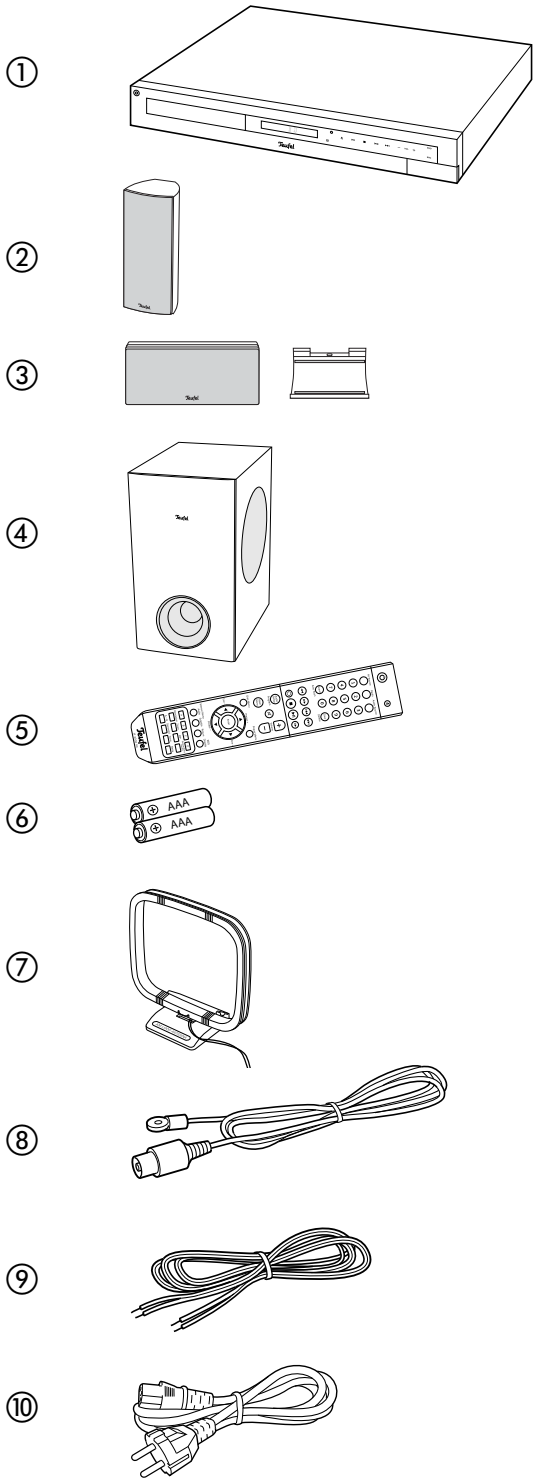
⑥ 2 x micro/AAA battery for the remote control

⑦ 1 x AM antenna

⑧ 1 x FM throw-out aerial

⑨ Speaker cable red/black 3 m
Speaker cable white/black 3 m
Speaker cable green/black 2 m
Speaker cable blue/black 5 m
Speaker cable grey/black 5 m
Speaker cable purple/black 5 m

⑩ 1 x power cord

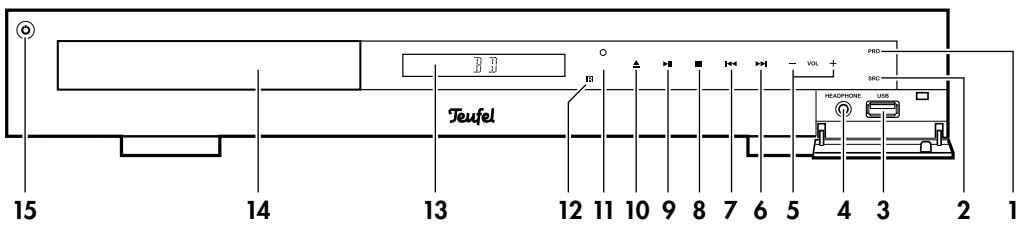


Check to be sure

- Check that all items have been delivered and that nothing is damaged.
- If the delivery is incomplete or you find damage sustained in transit, do not operate the unit but contact our service department (see page 3).

Control elements and connections

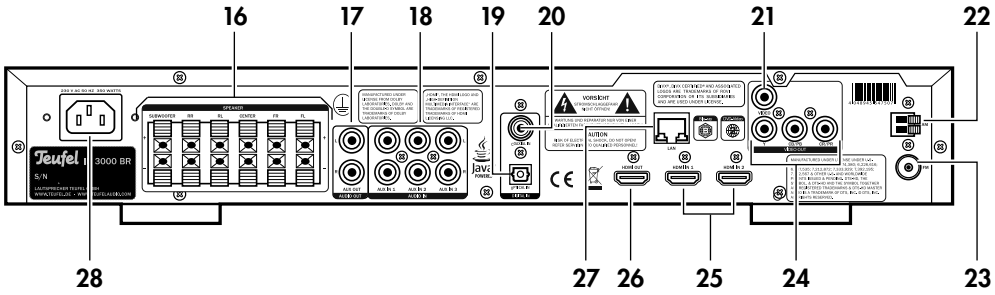
Front side



Item	Name	Description
1	**Pro**	Save a radio station
2	**Src**	Selection of the source device
3	**USB**	USB connection
4	**Headphones**	Earphone connection
5	**– Volume +**	Volume buttons
6	▶▶I	Skip forward
7	I◀◀	Skip back
8	■	Stop button

Item	Name	Description
9	▶II	Playback/pause
10	⏏	Disk eject button
11	–	Standby display
12	**IR**	Infrared receiver
13	–	Display panel
14	–	Disk tray
15	⏻	Switch the device on or to standby

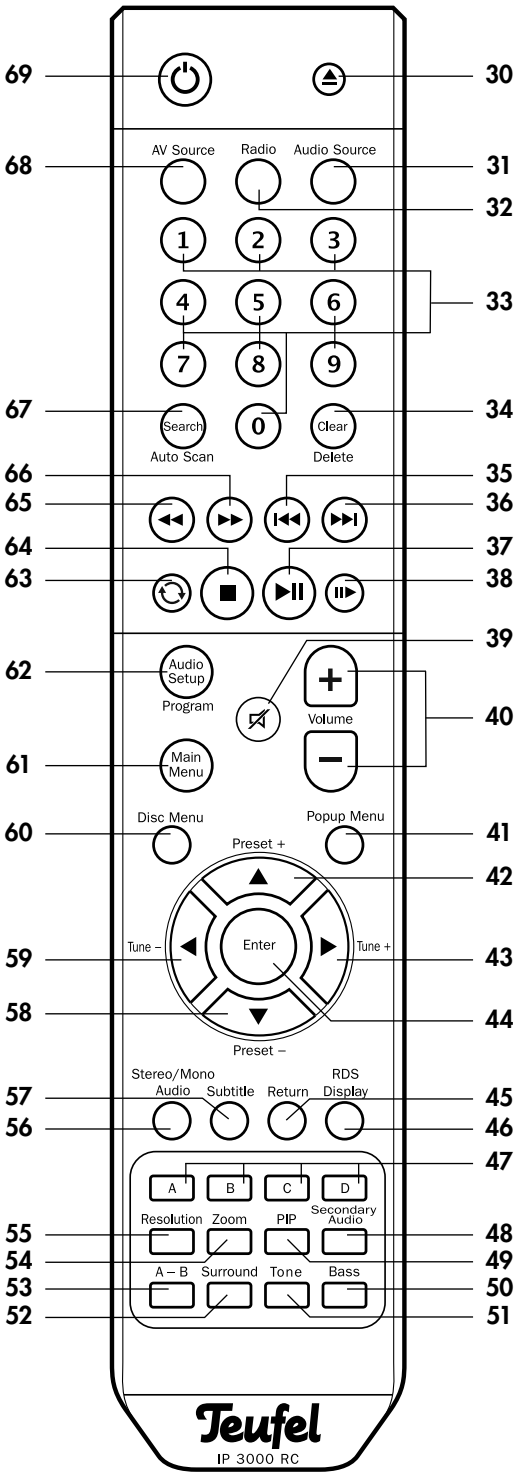
Back side



Item	Name	Description
16	**SPEAKERS**	Speaker connections
17	**AUDIO OUT**	Audio output jacks
18	**AUX IN 1-3**	Input jacks for analogue audio source devices
19	**OPTICAL IN**	Input jack for digital audio signals via optical lines
20	**COAXIAL IN**	Input jacks for digital audio signals via coax cables
21	**VIDEO**	Output jack for TV/projector with FBAS video
22	**AM ANT**	Antenna connection AM

Item	Name	Description
23	**FM ANT**	Antenna connection FM
24	**Y CB/PB CR/PR**	Output jacks for TV/projector with component video
25	**HDMI 1 + 2**	Input jacks for digital source devices with HDMI connection
26	**HDMI OUT**	Output jack for TV/projector with HDMI connection
27	**ETHERNET**	Network/Internet connection
28	–	Connector jack for mains cord

Remote control



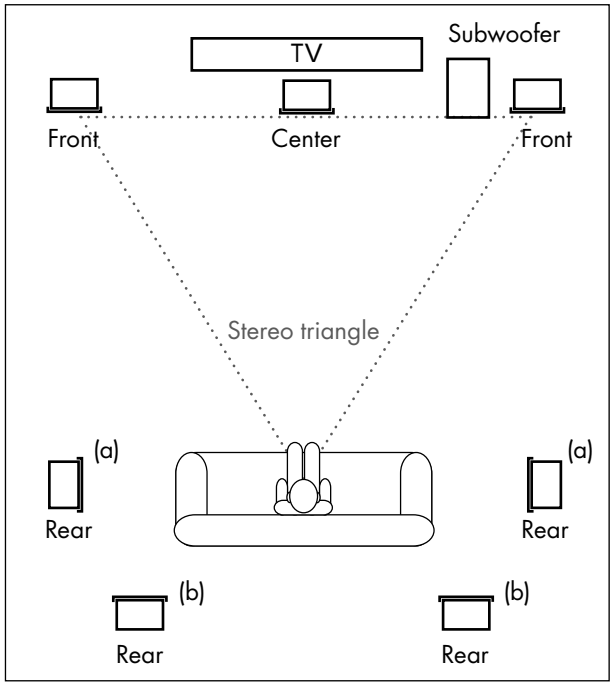
Item	Name	Description
30	⏏	Open the DVD tray
31	**Audio Source**	Select audio input
32	**Radio**	Select radio "FM" or "AM"
33	**1...0**	Number buttons
34	**Clear/Delete**	Delete button
35	⏮	Skip back
36	⏭	Skip forward
37	⏯	Playback/pause
38	⏸▶	Frame-by-frame button
39	🔇	Mute the speakers
40	**+ Volume –**	Increase/decrease volume
41	**Popup Menu**	Access popup menu of the BD
42	**▲ Preset +**	Station memory/navigation up
43	**▶ Tune +**	Frequency forward, navigation right
44	**Enter**	Select button
45	**Return**	Leave setting/menu
46	**RDS Display**	Extra display/RDS information
47	**A B C D**	Control buttons for BD programs
48	**Secondary Audio**	Switch sound for picture-in-picture
49	**PIP**	Picture in picture function for BD
50	**Bass**	Bass boost on/off
51	**Tone**	Adjusting the sound
52	**Surround**	Setting ambient sound
53	**A - B**	Set segment repeat
54	**Zoom**	Enlarge image
55	**Resolution**	Set resolution
56	**Stereo/Mono Audio**	Radio: Switch between stereo/ mono, audio settings
57	**Subtitle**	Switch subtitles
58	**▼ Preset –**	Station memory/navigation down
59	**◀ Tune –**	Frequency back, navigation left
60	**Disc Menu**	BD/DVD menu
61	**Main Menu**	Main menu
62	**Audio Setup-Program**	Set audio, Radio: Save to station memory slots
63	🔁	Set repeat
64	■	Stop playback
65	◄◄	Fast rewind
66	►►	Fast forward
67	**Search Auto Scan**	Select BD/DVD chapter, automatically save radio stations
68	**AV Source**	Select audio/video source
69	⏻	Switching the device on or to standby

Setup and connection

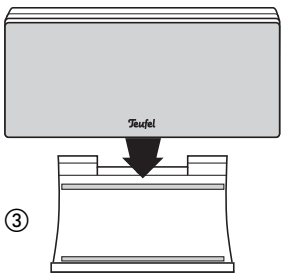
Location tips

- Select a stable, level base or a suitable wall.
- Make sure that the environment is clean and free from dust.
- Avoid placing the unit close to sources of heat or in direct sunlight.
- Do not place any heavy objects on the cables, the speakers or the device.
- The device should have approx. 10 cm of clearance on all sides to ensure adequate circulation of air.

Setting up the speakers



Center speaker



- Place the center speaker on the enclosed holder ③ in a central position directly under the screen or ideally on an arc that extends slightly towards the screen. You can also mount the speaker directly on the wall with the key hole in the rear panel.

Front speaker

- The front speakers are set up to the right and left of the screen or hung at a height of approx. 80 to 160 cm.
- They should be roughly in line with the center speaker and form an equilateral triangle with the listener – the so-called stereo triangle (distance from the listener = distance between the speakers).
- The speakers should project sound directly into the room or slightly towards the listener.

Rear speaker

- The rear speakers are set up or hung next to (a) or behind (b) the listener at a height of 1.20 m to 2.10 m.
- There should be at a distance of at least 100 cm to the listener.

Subwoofer

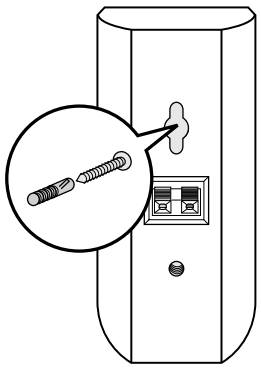
- You can freely select the location for the subwoofer; it does not affect the other speakers. However, do not place it in the corner of a room as this may cause uncontrollable frequency overloads. A location between the front speakers is often ideal.

Wall mounting

Danger **Risk of damage!**

Incorrect location may result in damage.

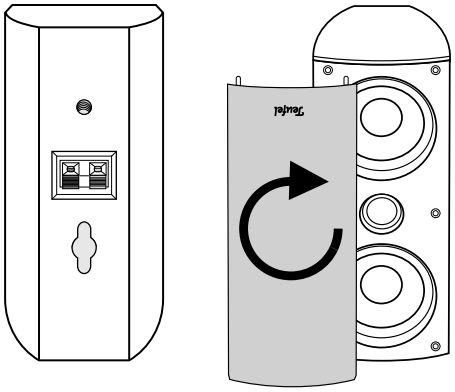
- Ensure that any wall mounting is performed in a professional manner.
- Only use suitable wall holders to mount the speakers. Verify the carrying capacity of the walls.



- You can mount the satellite speakers on the wall using the key hole opening on the back side of the speaker.
- You can purchase installation materials (cables, wall brackets and resonance dampers) especially designed for these speakers in our webshop (www.teufelaudio.com) in the "Accessories" area.

Mounting on the speaker stand M 50 P

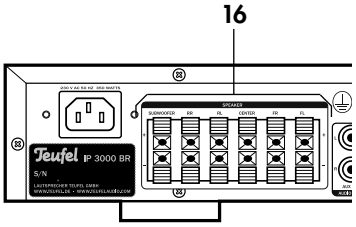
- As the speaker is quite high, it must be mounted on the speaker stand so that the key hole opening is located under the connector terminals. Otherwise the speaker would bump into the diagonal stand tube.



- Remove the protective grid from the speaker bycarefully taking hold of it from behind and slowly pulling it off to the front.
- Turn the protective grid by 180° and put it back in place.
- When positioning, make sure that the installation pins slide exactly into the corresponding jacks on the speaker.

Connecting the speakers

Use the enclosed coloured speaker cables to connect the speakers. You can order longer cables if you need them in our webshop (www.teufelaudio.com) in the "Accessories" area.



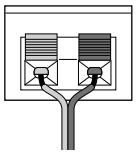
The coloured connector terminals **16** "Speakers" for the six speakers are located on the back side of the receiver:

Colour	Speaker	Label
White/black	Front left	FL
Red/black	Front right	FR
Green/black	Center	CENTER
Blue/black	Rear left	SL
Grey/black	Rear right	SR
Purple/black	Subwoofer	SUBWOOFER

The speaker terminals and the enclosed speaker cables are like coloured.

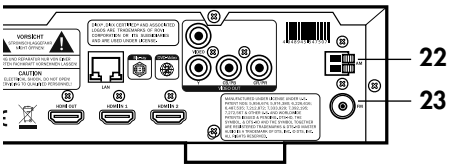
! **Make sure that the polarity is correct!**
Connect the like-coloured terminal clips with one another. Otherwise, the sound quality will suffer.

Depress the connector terminal lever and run the cable end into the corresponding opening.
Releasing the lever locks the cable end in place.



Antennas

Danger **Risk associated with lightning strike!**
If you are using outdoor or roof antennas, be absolutely sure that the antenna has lightning protection.



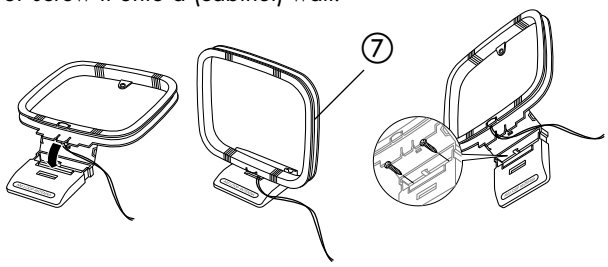
FM antenna

Connect the FM antenna to the jack **23** "FM ANT". This may be a roof/outside antenna, but also a cable television connection. You will need a coaxial connector cable for this.

If no antenna connection is available at the installation location, you can use the enclosed throw-out aerial ⑧. Insert the antenna plug in the jack **23** "FM ANT" and adjust the position of the throw-out aerial for best reception. Then fix the antenna in place with adhesive tape or a nail.

AM antenna

The enclosed antenna ⑦ receives medium wave (AM) stations. You can set up this antenna to be free standing or screw it onto a (cabinet) wall.



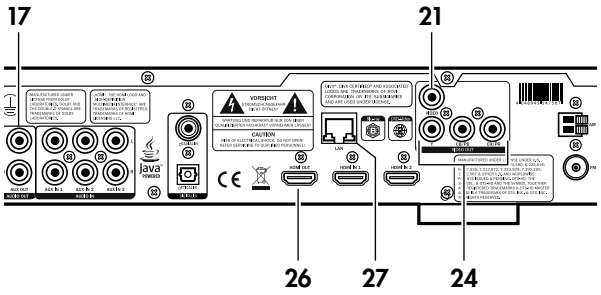
Connect the antenna's connector cable with the jacks **22** "AM ANT" on the back side of the receiver. Depress the connector terminal lever and run the cable end into the opening. Releasing the lever locks the cable in place.

Network/Internet

Attention **Disk of damage!**
Improper use may lead to damage.

- Only connect external devices (such as a WLAN router) if they have been turned off and the Impaq 3000 Mk. 2 has also been disconnected from the power supply.

The receiver requires a network connection for the Internet functions (BD-Live) and software updates. Connect your network or router with the jack **27** "ETHERNET" via a network cable.



Television/projector

You can connect a television set and/or projector to the following outputs:

26 HDMI OUT
Digital video and audio signals via an HDMI cable.

24 Y CB/PB CR/PR
Analogue component picture signal via a triple RCA cable. When connecting, pay attention to the colour of the jacks (green, blue and red). The sound is emitted via the RCA jacks **17** "AUDIO OUT".

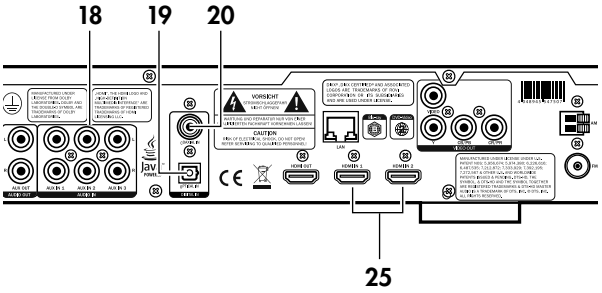
21 VIDEO
Analogue picture signal (FBAS) via an RCA cable. The sound is also emitted via the RCA jacks **17** "AUDIO OUT" here.

Ideally, you should use the HDMI output **25** as only the signals from the HDMI inputs 1 and 2 are issued here. The HDMI inputs cannot be used when connected via one of the other outputs.

Inputs for source devices

The receiver has two inputs for digital HDMI picture and audio sources (HDMI 1 + 2). An optical and coaxial digital audio input as well as three analogue audio inputs are also available (AUX IN 1–3).

You can connect the audio output of your television set to one of these inputs to enjoy receiver sound when watching television shows. Consult the operating instructions of your television for this.



25 HDMI 1 and 2
You can connect a source device with a digital picture and audio signal to each of these. You will need a HDMI cable for this.

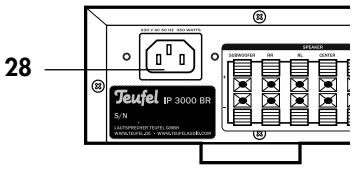
! **Important**
You can only use these HDMI inputs if the playback device (TV or projector) is connected via HDMI.

20COAXIAL IN
You can connect the coaxial digital sound output of a source device here. You will need a coaxial cable with RCA plugs for this.

19 OPTICAL IN
Here you can connect the optical digital audio output of a source device. You will need an optical cable with a TOSLINK plug for this purpose. Your source device requires either an optical 3.5 mm plug or a TOSLINK plug as well.

18 AUX IN 1 to 3
Here you can connect one source device with analogue sound each. You will need a dual RCA cable (L and R) for this.

Connecting to a power supply



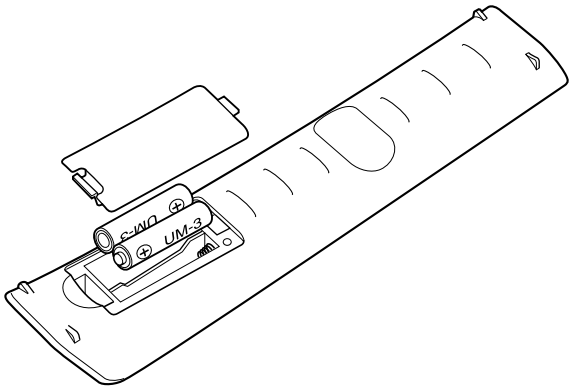
- Connect the mains connection jack **28** with a mains socket via the power cord ⑩.

Remote control

You will need two micro-type or AAA batteries with 1.5 Volt (included in the product contents) in order to operate the remote control.

Inserting batteries

1. Push the clip of the battery compartment on the back side of the remote control towards the arrow and then remove the lid to the top.
2. If applicable, remove the old batteries (please follow the notes on page 30).
3. Insert the batteries in the battery compartment as shown in the figure.
4. Place the cover back on the compartment and push it closed.



Functionality

The remote control relays the control signals by means of infrared light. For this, you must point the front of the remote control towards the receiver. Make sure that the infrared light is not obstructed by objects.

Fluorescent lamps and energy saving lamps installed in the direct vicinity may affect the functions of the remote control or even impair them.

Basic functions

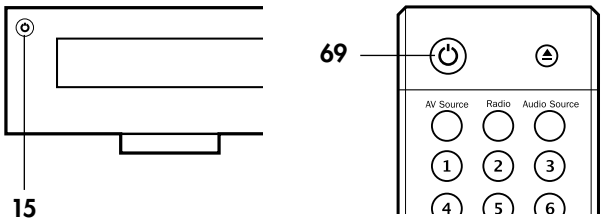
Sensor buttons

The buttons on the front side of the receiver are sensor buttons: Gently touching them is enough to trigger a switch operation.

Activating and deactivating

- You can switch your receiver to operational mode or standby mode with the button **15** or **69** "⏻".
- The red LED **11** is on in standby mode.

Standby does not disconnect the device from the mains. To turn it off completely, pull the power plug out of the socket.

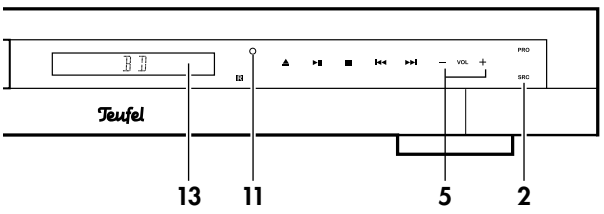


Selecting a source

After turning the device on, the last source device selected is activated.

- You can change the source in this order with the button **2** "SRC":
  DISC (BD/DVD/CD and USB), HDMI 1, HDMI 2, COAX IN, OPTI IN, AUX IN 1, AUX IN 2, AUX IN 3, FM (radio USW), AM (radio MW).
- Or you can switch the source with the direct selection buttons:
  68 "AV Source" – DISC or USB, HDMI 1, HDMI 2
  32 "Radio" – FM, AM
  31 "Audio Source" – COAX IN, OPTI IN, AUX IN 1, AUX IN 2, AUX IN 3

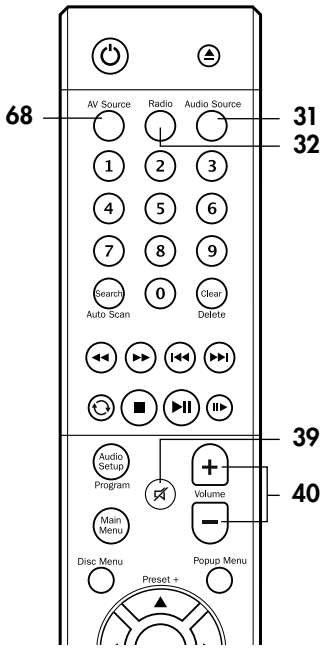
The selected source is shown in the display panel **13**.



Adjusting the volume

- Increase the volume: Push the button **5** "Vol +" or the button **40** "Volume +".
- Decrease the volume: Push the button **5** "Vol –" or the button **40** "Volume –".

The selected volume is shown in the display panel **13** in the range from 0 (low) to 40 (high).



Mute

- Turn off the sound with the button **39** "🔇".
  The notice "MUTE ON" will appear in the display panel **13**.
- Turn the sound back on: Push the button **39** "🔇" again or adjust the volume.

Main menu

You can set most receiver functions via the main menu. You can control the menu with the remote control. The menu is displayed on the connected television set.

> **Important**
> The menu functions are only available if "DISC" is selected as the source.

Both devices must be activated, the image signal of the receiver must appear on the television set.

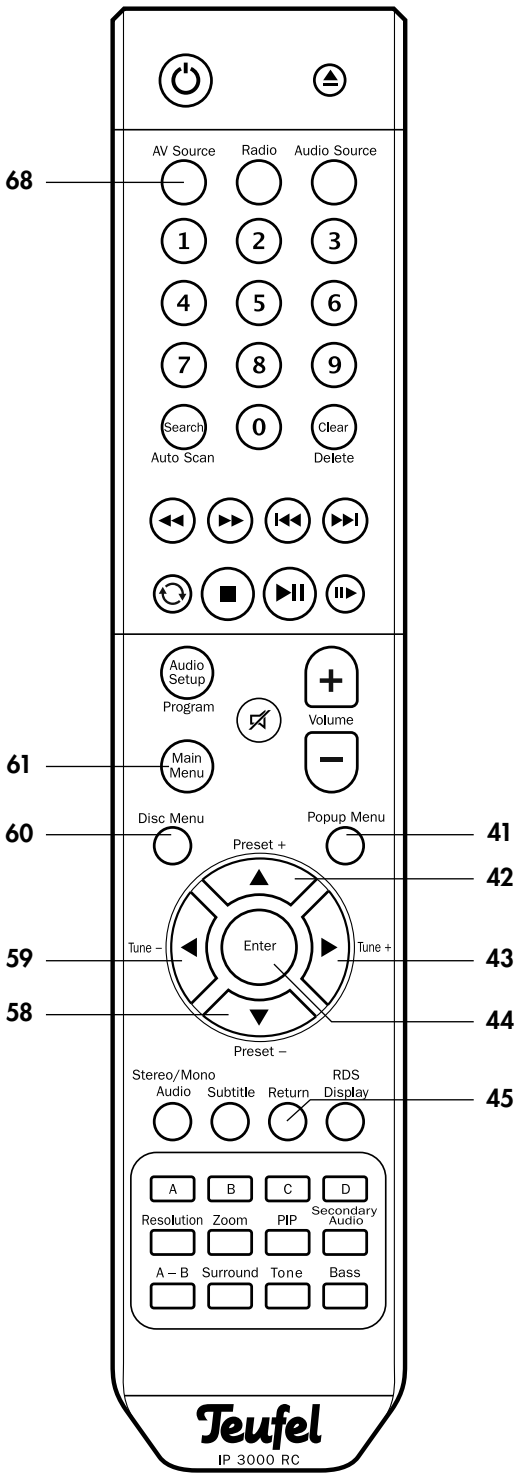
Quick Setup

You can make basic settings here.

1. Push the button **68** "AV Source" and open the main menu with the button **61** "Main Menu".
2. With the navigation buttons **42** "▲" and **58** "▼", select the item "Quick Setup" and **push** the Enter button **44** twice.
   The menu "OSD language settings" will open.
3. Select "English" as the language and confirm with the enter button **44**.
   The "Resolution" menu will open.
   You can make the following settings here:

HDMI Auto	=	the highest possible resolution is automatically set
1080p	=	1920 × 1080 Pixels
1080i	=	1920 × 1080 Pixels
720p	=	1280 × 720 Pixels
576p	=	720 x 576 Pixels
576i	=	720 x 576 Pixels

   p = Full screen mode
   i = Half-screen mode (interlaced)
4. Select the resolution that your television set is able to render and confirm with the enter button **44**.
   The "Image format" menu will open.
   You can make the following settings here:
   16:9 Widescreen – 4:3 movies are shown with full height and extended width on a 16:9 television set.
   16:9 Pillarbox – 4:3 movies are shown with full height and black bars on the left and right on a 16:9 television set.
   4:3 Pan and Scan – 16:9 movies are shown with full height, but are cut off on the sides on a 4:3 television set.
   4:3 Letterbox – 16:9 movies are shown with full width and with black bars on the top and bottom on a 4:3 television set.
5. Select the image format that corresponds to your television set and confirm with the enter button **44**.
   The button "Exit" will appear.
6. Confirm "Exit" with the enter button **44**.
   This applies and saves the basic settings.



Settings

You can define all device settings here.

1. Push the button **68** "AV Source" and open the main menu with the button **61** "Main Menu".
2. With the navigation buttons **42** "▲" and **58** "▼", select the item "Settings" and confirm with the Enter button **44** or the navigation button **43** "►".
   The submenu will open.
3. Select the desired menu item with the navigation buttons **42** "▲" and **58** "▼" and confirm with the Enter button **44** or the navigation button **43** "►".
   Another submenu will open and first show an overview of the current settings.
   You can open other submenus and make settings in the same manner.
4. To return to the previous menu, push the button **45** "Return" or the navigation button **59** "◄".

"Display" menu

Here you define the settings for the connected video playback device (e.g. TV, projector).

"TV Type"

Setting the cross colouring system for the connected television set:
NTSC – American standard
PAL – European standard
In case of doubt, refer to the operating instructions of your television set.

"Resolution"

Set the resolution of the television set for HD playback. Possible values:
HDMI Auto, 1080p, 1080i, 720p, 576p, 576i
HDMI Auto will automatically select the highest possible resolution.
Note: 1080p resolution is only available at the HDMI output.

You can also make this setting with the special function button **55** "Resolution" (see "Special function buttons" on page 18).

"Image Aspect"

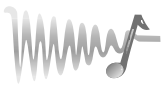
Setting the display on the television:
16:9 Widescreen – 4:3 movies are shown with full height and extended width on a 16:9 television set.
16:9 Pillarbox – 4:3 movies are shown with full height and black bars on the left and right on a 16:9 television set.
4:3 Pan and Scan – 16:9 movies are shown with full height, but are cut off on the sides on a 4:3 television set.
4:3 Letterbox – 16:9 movies are shown with full width and with black bars on the top and bottom on a 4:3 television set.

"Film Mode"

Movies on Blu-ray discs are saved at full resolution and 24 frames/second (1080p24). Not all television sets support such frame rates. The picture may flicker as a result. If this is the case, deactivate movie mode.
Note: 1080p are only issued via HDMI. No more than 1080i are available at the component output, independent from the setting "Movie mode".

"Deep Colour"

You can switch the setting for the colour depth to "Automatic" or "Off".



"Audio" menu

You can define the audio settings for BD and DVD playback here.

"PCM downsampling"

Determines the sampling rate for the audio signal. Possible values:
Off – Deactivated (192 kHz, Blu-ray quality)
96 kHz – equivalent to DVD quality
48 kHz – equivalent to CD quality

"Digital output"

Determines the audio output for the HDMI output **26** "HDMI OUT". Possible values:
PCM – Signal is mixed to 7.1 and transferred as PCM.
Bitstream HD – Relays the datastream from the Blu-ray disc unchanged**.**
Bitstream Legacy – Relays the datastream from the Blu-ray disc in legacy audio format. Suitable for Dolby Digital 5.1 or 6.1 and DTS 5.1.
Bitstream Mixed – Relays the datastream from the Blu-ray disc mixed and coded in a single datastream. Suitable for Dolby TrueHD and DTS HD Master Audio.

"Dynamic Range Control"

This function is only active with Dolby Digital and increases the volume for quiet passages while reducing the volume for loud passages. Possible values: On, Off, Automatic.

"Language" menu

You can define the language for menus, subtitles and playback here.

OSD – Language for the menu functions (German or English).
Menu – Language for the BD/DVD menus. Multiple languages are available providing they are supported by the DB/DVD.
Audio – Language for BD/DVD playback. Multiple languages are available providing they are supported by the BD/DVD.
Subtitles – Language for the subtitles with BD/DVD playback. Multiple languages are available providing they are supported by the BD/DVD. The "Off" setting turns the subtitles off.

"Parental control" menu

This menu item offers a child lock for BD/DVD playback. Some BD/DVDs are labelled for specific age groups and cannot be played in a certain setting. Unfortunately, many BD/DVDs do not have proper protection and many self-burned copies and video movies also lack such protection.
A parent password is requested in order to open the menu. The factory default is "0000". Therefore, push the zero button four times and confirm by pushing the OK button under the password entry.

"Parental control"

On – Parental control is activated.
Off – Parental control is deactivated. The password must be entered with the number buttons **33** "1...0".

"Parental level"

Set the protection level. Eight levels can be chosen from, which correspond to the recommendations of the MPAA (Motion Picture Association of America) for rating films:
1 – Kid safe, harmless for children.
2 – G (General Audience), suitable for all age groups.
3 – PG (Parental Guidance), under adult supervision.
4 – PG-13 (Parental Guidance 13), for at least 13 years of age and under adult supervision.
5 – PG-R (Parents Guidance - Restricted), only under adult supervision.
6 – R(Restricted), 17 years and older under adult supervision.
7 – NC-17 (No Children 17 and under admitted), for persons aged 18 years and older.
8 – Adult, for adults only.

"Parental password"

Change the password: Enter the new password with the number buttons **33** "1...0" and confirm with the select button **44** "Enter".
Remember the new password! In an emergency, you can reset the receiver to the factory default (see next section).

"System" menu

Here you can define the general settings for the receiver.

"Optical disc autoplay"

This setting determines whether CD//DVD/BD playback starts automatically or not.
Options:
Deactivated (playback does not start automatically)
Activated (playback starts automatically)

"Screen saver duration"

After the period of inactivity which can be set here, the receiver will dim the screen e.g. to prevent burn-in with plasma screens.
Possible values: 5, 10, 20, 30 minutes. "Off" means that the screensaver is deactivated.

"Update via Network"

With this function (if available), you can load a new version of the operating system software for your receiver via your Internet connection.

First, the current version installed and the update version appear on the screen. With the navigation buttons **59** "◀" and **43** "▶" select the item "OK" in order to perform the update or "Cancel" to abort the process. Then push the select button **44** "Enter".

The update will take several minutes, during which time you may not deactivate the device and disconnect the Internet connection. Be sure to observe the instructions on the screen in the process.

After the update, reset the receiver to the factory default.

"Restore factory default"

This resets all receiver settings to the factory default. You will have to set your individual settings again afterwards.

„DivX® VOD"

Here you can find the DivX® VOD Registration Code of your Impaq® 3000 Mk 2 Blu-ray. Using this code, you can register your device in order to play copyright and copy protection secured DivX® videos. Learn more about it on the website www.divx.com.

"Network" menu

Here you can define the settings for the Internet connection. When you access the menu, a new menu will appear:

- Hard-wired – Set network
- Network test – Test connection

"Network test"

The receiver performs various tests and displays the respective result on the screen. You can abort the tests at any time with "Abort".

Once all tests are complete, the Internet connection is functional. Otherwise the receiver will indicate any error sources on the screen.

"Hard-wired"

Once accessed, the current "IP settings" will appear first of all:

- **Link status**: "Link Up" indicates that a network device is electronically linked to the receiver while "Link Down" indicates that there is no connection or that there is a connection error. Only for the purpose of information and cannot be changed**.**
- **MAC address**: This is the hardware address of the Ethernet interface, which is important when connecting to the router. Only for the purpose of information and cannot be changed**.**
- **IP mode**: "Dynamic" – The receiver automatically requests the necessary settings from a router (via DHCP). Recommended setting, then no other information is necessary. Prerequisite: Active DHCP server (e.g. router) on the network.
  "Manual" – The IP address and all other values must be set. These settings should only be made by a professional. Use the number buttons on the remote control for entry**.**
- **IP address**: The network address for the receiver consisting of four number series, each between 0 and 255, e.g. 192.168.001.100.
- **Subnet mask**: With the net mask, the receiver recognises which addresses it reaches on its own network and which it only reaches via the gateway (router). Consists of four number series, each between 0 and 255, e.g. 255.255.255.0.
- **Gateway**: Network address of the gateway (router), which monitors the Internet connection**.**
- **Primary DNS**: Network address of the domain name server, which locates the corresponding IP address for domain names (e.g. www.teufel.de). Comparable with a phone book.
- **Secondary DNS**: As above, it is used if the primary DNS fails.

"BD-Live" menu

BD-Live is a function available on Blu-ray discs. By clicking the menu, you can download additional content such as trailers, documentation or director's comments on the movie you are watching via the Internet. You also have the option of participating in interactive online games or quizzes.
In the "BD-Live" menu, you define the boundary conditions for Internet access and the BD-Live memory.

"BD-Live Internet access"

Here you can allow Internet access at all times, restrict or block it.

"BD-Live storage"

Display of the available storage space on the inserted USB stick or display "No USB".

"Erase the Blu-ray storage"

Clear the memory occupied by BD-Live on the USB stick.

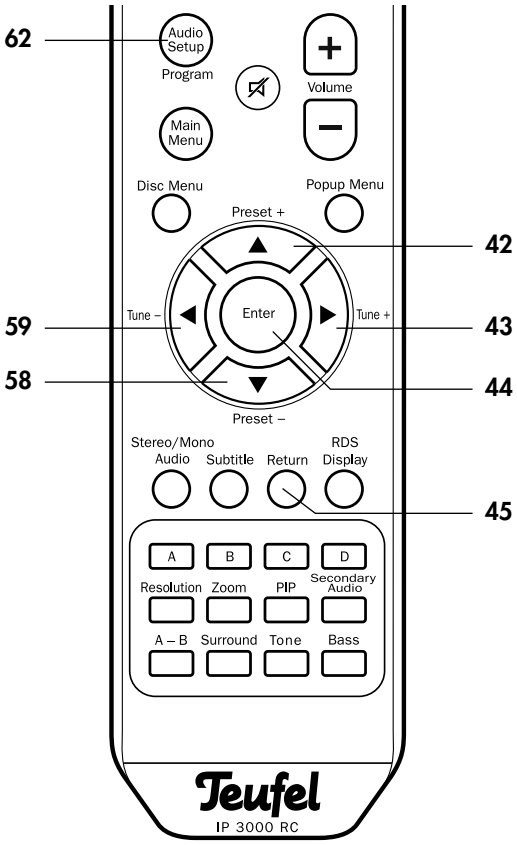
To abort, push the button **45** "Return".
To accept the entries, select the item "Apply" and push the select button **44** "Enter". The receiver then automatically performs a network test (see above).

Audio settings

You can access the audio settings by pushing the button **62** "Audio Setup".
The menus appear on the display panel. There is therefore no need to activate the television set or the projector.
LEVEL – Adjust the volume of the individual speakers.
HDMI AUDIO OUT – Activate/deactivate sound transmission at the HDMI output.
TEST TONE – Adjust the volume of the individual speakers with a test sound (noise).
LIPSYNC – Set the delay of the sound output.
SURROUND – Adjust the surround sound.
TONE – Adjust the sound.
DISTANCE – Set the signal travelling times of the speakers.

Select the desired submenu with the navigation buttons **42** "▲" and **58** "▼" and push the select button **44** "Enter".

After six seconds of keypad inactivity, the device will return to normal mode.



LEVEL

Here you can increase or decrease the relative volume for each speaker.

1. Select the desired speaker with the navigation buttons **42** "▲" and **58** "▼":
   FR – Front right
   SW – Subwoofer
   SL – Rear left
   SR – Rear right
   C – Center
   FL – Front left

2. With the navigation buttons **59** "◄" and **43** "►", set the relative volume from "–10" to "+10".
3. Finish by pushing the button **45** "Return".

HDMI AUDIO OUT

You can switch sound transmission at the HDMI output **26** "HDMI OUT" on ("ON") and off ("OFF").
When you play movies, you do not need to mute the television set in order to hear sound from the receiver speakers.

TEST TONE

Adjusting the volume with a test tone. As described above under "LEVEL", you can increase or decrease the relative volume for each speaker here. However, the sound playback will be replaced by a test tone (noise).
The test tone is muted as soon as you leave the submenu.

LIPSYNC

Digital image processing in the television set requires some time. In order to keep the image and sound synchronous, television sets delay the sound by a few milliseconds. For synchronous receiver sound, you can set the audio delay from 0 to 120 ms.

- The current setting in milliseconds (ms) appears in the display panel.
- With the navigation buttons **59** "◄" and **43** "►", you can now set the audio delay from 0 to 120 ms.

SURROUND

Briefly tipping the navigation buttons **59** "◄" and **43** "►" switches between the available modes:
"**5.1 CH**" 5.1 channel surround sound
"**DPLII**" Dolby® ProLogic 2.
"**STEREO**" Stereo playback.

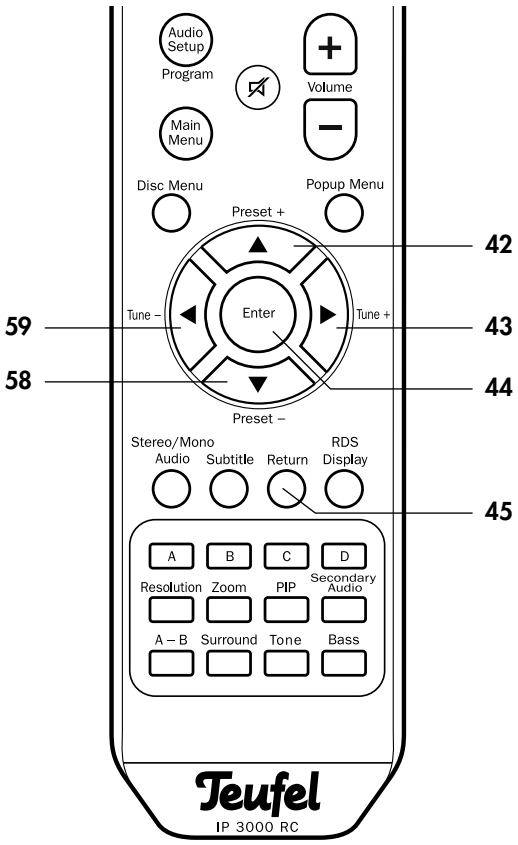
TONE

With the navigation buttons **42** "▲" and **58** "▼", select the desired range of the sound control:
Bass low tones (bass tones)
Treble high tones
With the navigation buttons **59** "◄" and **43** "►", you can now set the selected range from "–6" (decrease) to "+6" (increase).

DISTANCE

The surround sound effect may be disrupted if the speakers are positioned at different distances to the listening position. To compensate for these delays, set the distances from the listening position to each speaker within a range from 0 to 400 cm here.

1. Select the desired speaker with the navigation buttons **42** "▲" and **58** "▼":
   C – Center
   FL – Front left
   FR – Front right
   SW – Subwoofer
   SL – Rear left
   SR – Rear right
2. With the navigation buttons **59** "◄" and **43** "►", set the distance from the listening position in the range from "0" to "400" in 20 cm increments.
3. Finish by pushing the button **45** "Return".



Special function buttons

“Resolution” button

Tipping the button **55** “Resolution” adjusts the resolution of the television set for HD playback. Possible settings:
HDMI Auto, 1080p, 1080i, 720p, 576p, 576i
HDMI Auto will automatically select the highest possible resolution.
Note: 1080p resolution is only available at the HDMI output.

“Surround” button

By repeatedly tipping the button **52** “Surround” you switch the surround sound:
“**5.1 CH**” 5.1 channel surround sound
“**DPLII**” Dolby® ProLogic 2.
“**STEREO**” Stereo playback.

“Tone” button

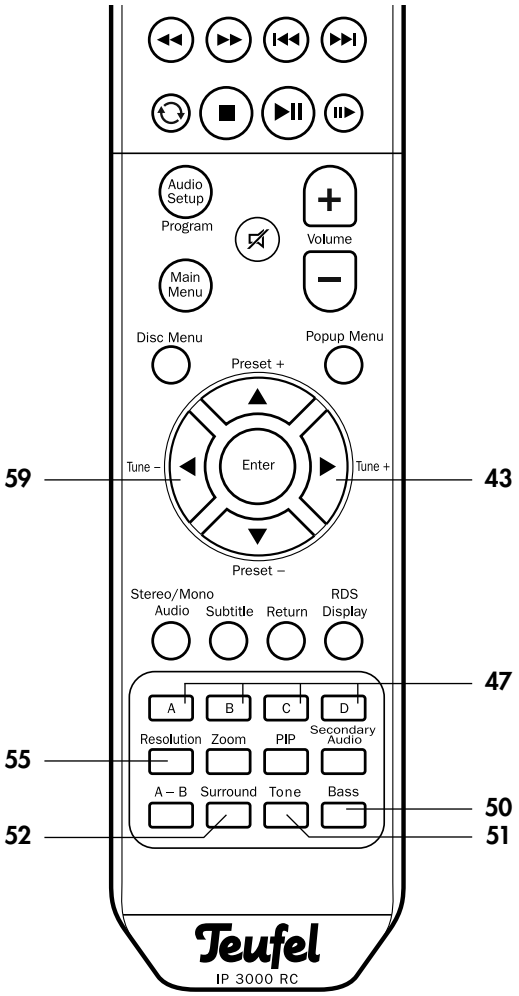
Sound control. Repeatedly pushing the button **51** “Tone” selects the desired range:
Bass low tones (bass tones)
Treble high tones
With the navigation buttons **59** “◄” and **43** “►”, you can set the selected range from “–6” (decrease) to “+6” (increase).

“Bass” button

Push the button **50** “Bass” to adjust the volume of the sub-woofer with the navigation buttons **59** “◄” and **43** “►”.

Buttons “A B C D”

The coloured buttons **47** “A B C D” control the menus of interactive Blu-ray discs.



BD/DVD/CD mode

Suitable BDs/DVDs/CDs

- Only use commercially-available BDs/DVDs/CDs that have one of the adjacent symbols.
- BDs/DVDs/CDs containing files in the following formats are readable: CD audio, VCD, SVCD, DVD video, BD video, MP3 and JPEG.
- Normal BDs/DVDs/CDs with diameters of 80 and 120 mm can be used.
- Normally, burned BDs/DVDs/CDs can be read. However, an excessively high burning speed or low-quality blank CDs may cause problems. Unfortunately, the only solution here is trial and error.
- CDs that are produced for industrial use cannot always be read.

Handling BDs/DVDs/CDs

Each BD/DVD/CD is encased in a resistant plastic layer that protects it against outside influences. However, you still always have to protect the disc against dirt and scratches.

Your receiver can compensate minor damages to the BD/DVD/CD. Larger scratches or other damages may result in skipping or similar errors. Please also observe the information on the CD case for proper handling of BDs/DVDs/CDs!

Inserting a BD/DVD/CD

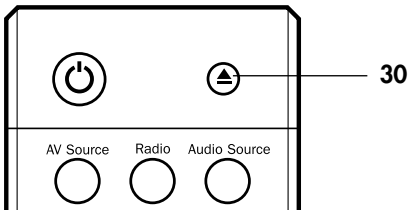
Attention Risk of damage!

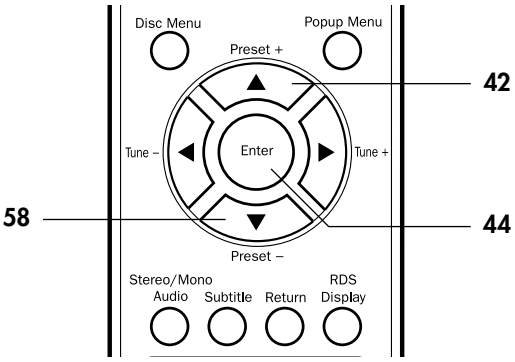
Do not in any case insert multiple BDs/DVDs/CDs on top of one another. Do not insert any objects other than BDs/DVDs/CDs.

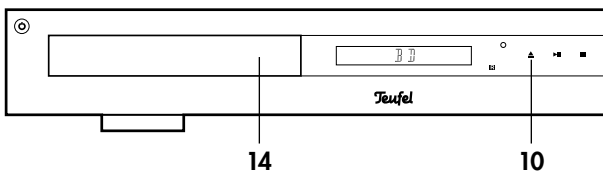
1. Push the button **10** or **30** "⏏". The tray **14** will eject to the front. At the same time, the device will switch to the source "DISC".
2. Carefully place the BD/DVD/CD with the labelled side up in the tray recess.
3. Push the button **10** or **30** "⏏". The tray **14** will close and the disc will be read. Depending on the setting and disc, playback begins automatically after a few seconds or a menu will appear.
   If the main menu appears, select the item "BD-ROM", "DVD" or "CD-DA" with the navigation buttons **42** "▲" and **58** "▼" and push the select button **44** "Enter".

You can control the BD/DVD menus with the navigation buttons and the select button **44** "Enter".

The playback functions for CD and USB are identical and are described in the section "Playback functions" on page 22.







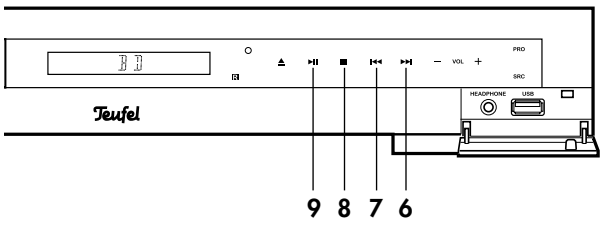
Ejecting a BD/DVD/CD

1. Push the button **10** or **30** "⏏". The tray will eject to the front.
2. Remove the BD/DVD/CD from the tray.
3. Push the button **10** or **30** "⏏". The tray is closed.

Playback functions

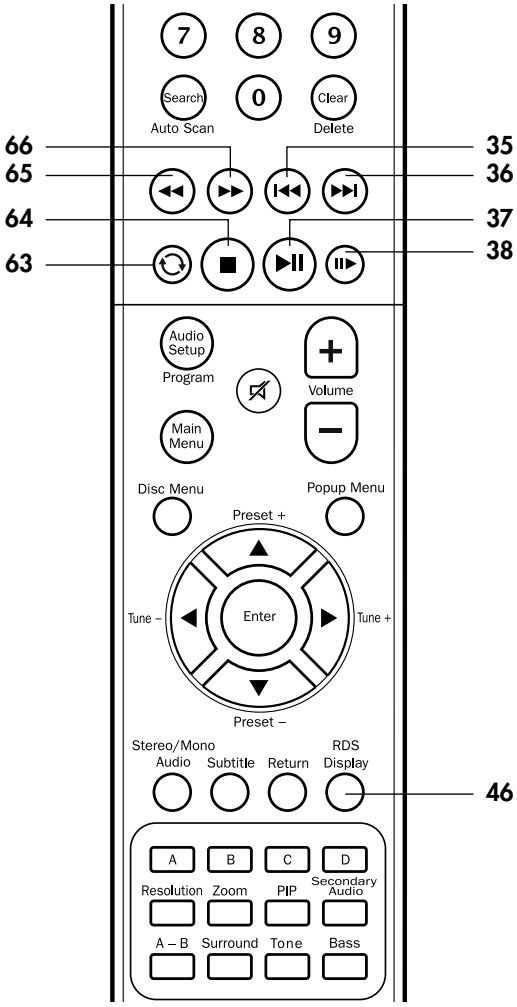
General playback information

- Stop playback: Push the button **9** or **37** "▶II".
- Continue playback: Push the button **9** or **37** "▶II" again.
- Play the next track: Tip the button **6** or **36** "►►I".
- Play the previous track: Tip the button **7** or **35** "I◄◄".
- Play the track in fast forward (only with BD, DVD or music playback): Tip the button **65** "◄◄" or **66** "►► ". Each time you tip the button, the playback speed increases: 2x, 4x, 8x, 16x, 32x, 64x, 128x. Playback occurs without sound; you will see the elapsed track time in the display panel.
  To continue normal playback, push the button **9** or **37** "▶II".
- Frame-by-frame playback: Tip the button **38** "II▶". Each time you tip the button, the picture advances by one frame. To continue normal playback, push the button **9** or **37** "▶II".
- Stop playback: Push the button **8** or **64** "■".



BD and DVD playback

- Access the BD/DVD menu: Push the button **60** "Disc Menu".
- Access the popup menu (if present on the BD/DVD): Push the button **41** "Popup Menu".
- Switch audio track (language): Push the button **56** "Audio" several times if necessary.
- Switch or deactivate subtitles (if available on the BD/DVD): Tip the button **57** "Subtitle".
- Enlarge the image: Tip the button **54** "Zoom" – The picture will be consecutively enlarged by 2, 3, 4 and 5 times.



Showing information

- You can display an info window by pushing the button **46** "RDS/Display".

- Pushing the button **63** ⟲activates or deactivates the repeat function .
- Pushing the button **37** "▶II" starts and interrupts automatic playback (slideshow).

Repeat function (Repeat)

Tipping the button **63** "⟲" switches the repeat functions; you will see the selected function on the display panel and on the screen:

- Off – normal playback, no repeat
- Track – repeat current track
- Chapter – repeat current chapter

Repeat section

With this function you can mark a section for repetition.
Note: This function is not available on some Blu-rays.

1. Start playback.
2. To start the desired section, briefly push the button **53** "A–B".
3. Briefly push the button **53** "A–B" again at the end of the desired section.
   The section will now be continually repeated.
4. To continue normal playback, briefly push the button **53** "A–B" again.

Jumping to track, chapter or placemark

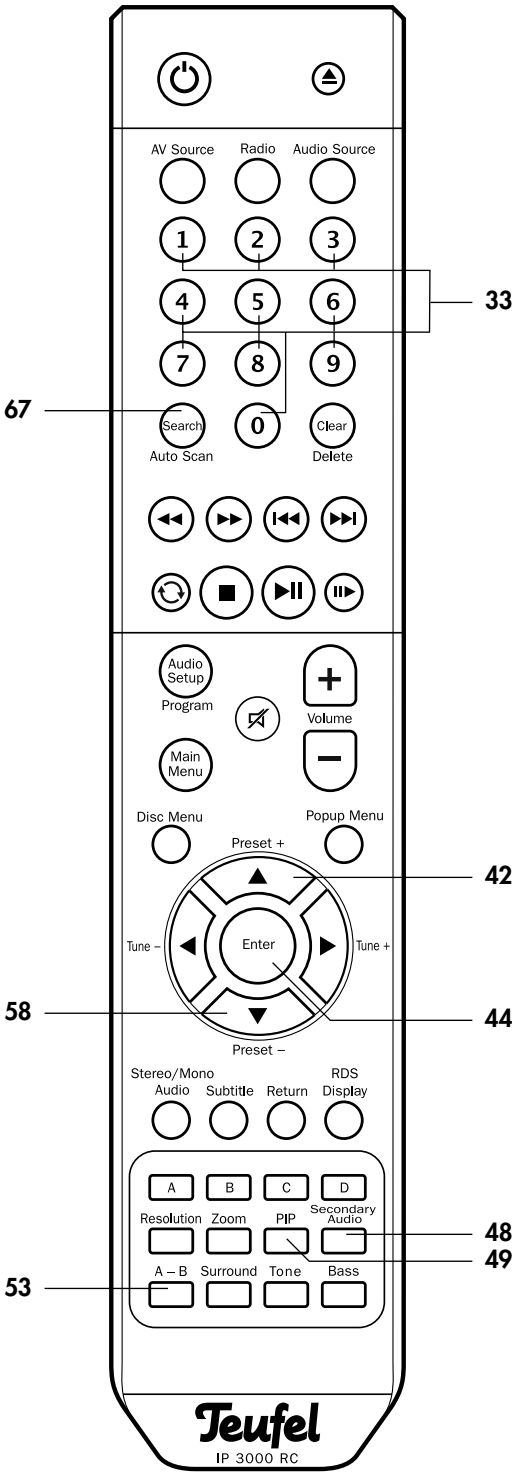
Show a certain passage on the BD/DVD:

1. Select the desired function with the button **67** "Search":
   Push 1 x: Go to track
   Push 2 x: Go to chapter
   Push 3 x: Go to time
2. With the number buttons **33** "1...0", type the track/chapter number or the time in the input field. The entry behind the input field is the number of tracks or chapters or the total playing time.
3. Push the select button **44** "Enter".

Picture in Picture (PIP)

Some Blu-ray discs offer the possibility of showing a bonus video in addition to the main film, e.g. with comments from the author. Different camera angles can also be selected.

1. Push the button **49** "PIP" to use these functions.
   A menu with the additional functions available on the BD appears.
2. Select the desired function with the navigation buttons **42** "▲" and **58** "▼" and confirm wth the select button **44** "Enter".
3. With the button **48** "Secondary Audio" you can switch the sound between the main film and bonus video.
   Note: The sound of the bonus video will not be issued in 5.1 multichannel sound.
4. To deactivate the function push the button **49** "PIP" again.



USB mode

Your new receiver can read USB memory sticks with the specifications USB 1.0 and 2.0 and a capacity of up to 8 gigabytes and play back music files in MP3 format or WMA and photos in JPEG or PNG format that are saved on it.

Handling mobile storage devices

USB sticks are sensitive electronic devices and must therefore be handled with care. If you are not using your storage device, be absolutely sure to store it in its protective sleeve or have its protective cap on.

Important

Do not use any storage devices that exhibit mechanical **damages** or have fallen in a liquid. Do not subject the storage devices to direct **sunlight**. Improper use may result in **data loss**! To the extent possible, backup your music on your PC.

Inserting and playing a USB stick

1. Set the source "DISC" with the button **68** "AV Source".
2. Insert the USB stick in the port **3** "USB". The plug only fits the port in one position.
   The USB stick will now be read. This symbol will appear briefly on the screen:

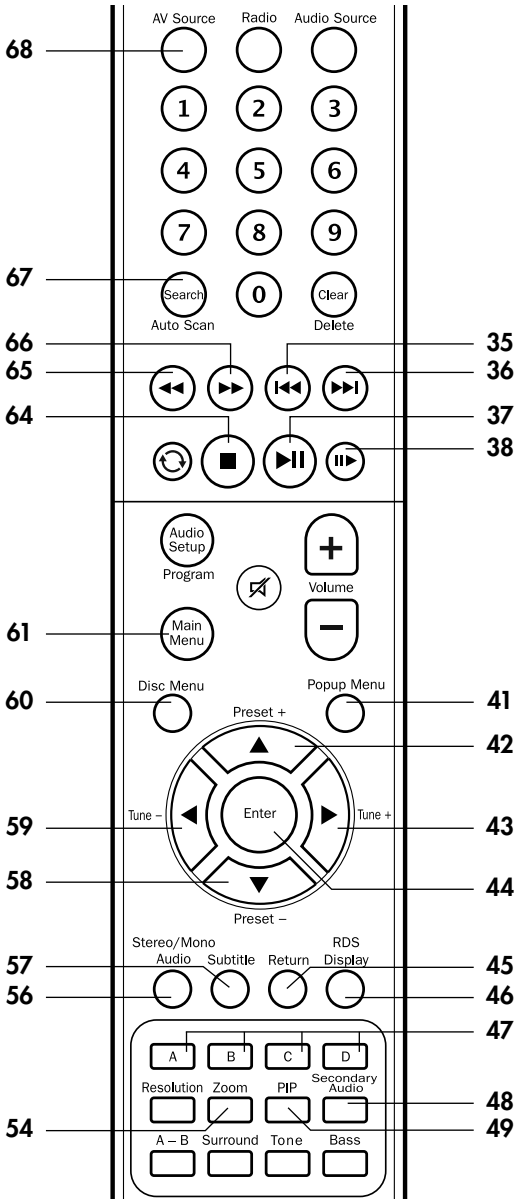
3. On the main menu, select the menu item "Media" and confirm with the select button **44** "Enter".
   A short time later, the items Images, Videos and Music appear in the menu if there are corresponding files on the stick.

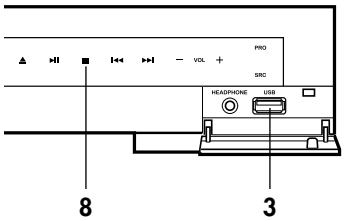
Removing a USB stick

Attention Risk of damage!

Never remove the USB stick if the receiver is still accessing it!

1. Push the button **8** or **64** "■".
2. Wait until the playback has stopped.
3. Pull the USB stick out of the jack **3** "USB".

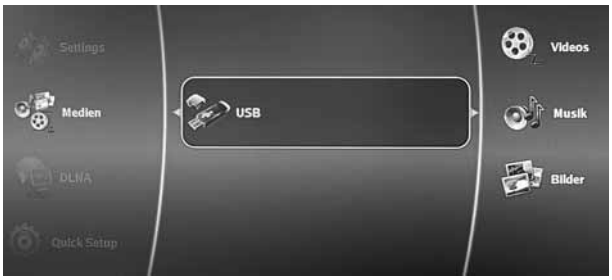




Selecting files

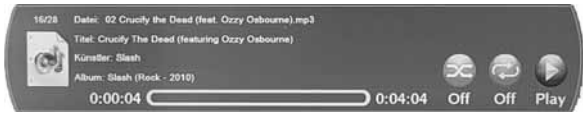
The content of DVDs, CDs and USB sticks, on which media files are saved, is displayed on the screen in a browser.

1. Set the source “DISC” with the button **68** “AV Source”.
2. Open the main menu with the button **61** “Main Menu”.
   The left column shows the main menu items.
   The categories “Music”, “Pictures” and “Videos” are displayed under the menu item “Media” if corresponding files are present.
3. Use the buttons **42** “▲”, **43** “►”, **58** “▼” and**59** “◄” to navigate through the menu levels and select the desired category with the select button **44** “Enter” or start playback of a media file.



Music playback

- Select the desired music track as previously described in the chapter “Selecting files”.
  The track and all subsequent music tracks located in the folder will be played.
- The following info window appears during playback:



- Pushing the button **63** activates and deactivates random playback and the repeat function .

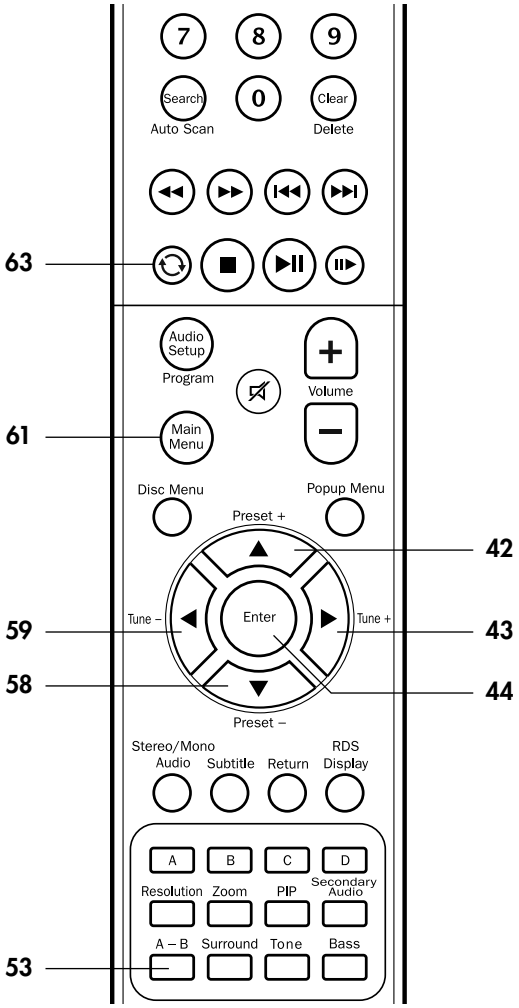
Image playback

- Select the desired image as previously described in the chapter “Selecting files”.
  The image then appears on the television set.
- If you would like to playback all subsequent images from the folder, push the button **37** “▶II”. Playback will now automatically begin as with a slideshow.

Showing information

- You can display an info window with the button **46** “RDS/Display”.

- Pushing the button **63** activates or deactivates the repeat function .
- Pushing the button **37** “▶II” starts and interrupts automatic playback (slideshow).



Slideshow settings

You can find the menu item "Settings" in the left menu column of the sub-menu "Images". Here you can change the slideshow settings.

- **Slideshow effects**– different crossfades from image to image.
- **Slideshow delay** – from 1 to 30 seconds per image.

Start slideshow

- Select this menu item if you would like to display all images contained in the folder as a slideshow.

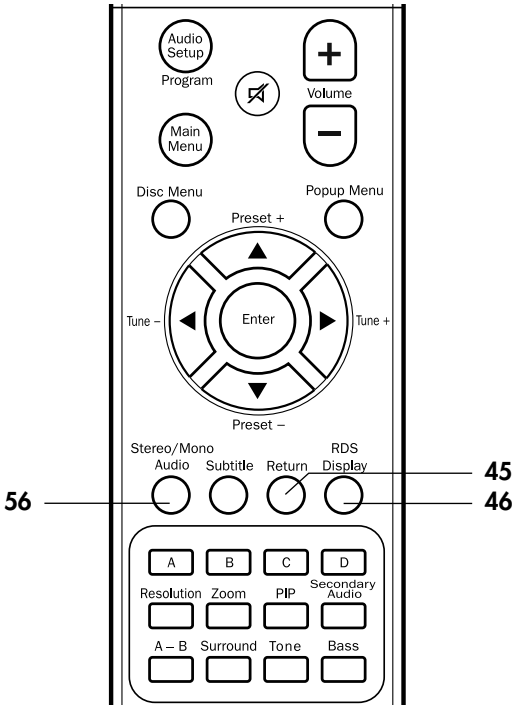
Slideshow with music

For a perfect slideshow, copy the images and a few suitable music tracks to a USB stick or a CD.

1. Begin by starting music playback.
2. Then push the button **45** "Return" in order to access the menu again.
3. Select "Browse pictures" there.
4. Mark the folder containing the desired images and then select the menu item "Start slideshow".

You can show or hide the info windows during the slideshow.

- For the current music track with the button **56** "Audio"
- For the image shown with the button **46** "RDS/Display"



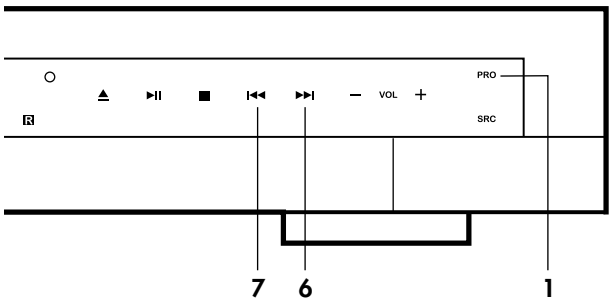
Radio mode

Select one of the radio frequency modes as a source (see page 13):
FM – Reception of mono and stereo stations from 87.5 to 108 MHz, RDS mode possible.
AM – Reception of mono stations from 531 to 1.602 kHz.

Setting the radio stations

Set the tuning frequency with the buttons **7** "⏮" and **6** "⏭" or **59** "**Tune**/◀" and **43** "**Tune+**/▶":

- **Automatically**: After holding down the button (approx. two seconds), the station scanning in the selected direction will begin until a station with a strong enough signal is found**.**
- **Manually**: Every time the button is tipped, the frequency is increased or decreased by one increment (FM: 0.05 MHz, AM: 9 kHz).



The set frequency will appear in the display panel **13**. If

the station is received in stereo, the note “STEREO” will also appear.
Stations with a weak signal may cause faults in stereo mode. In this case, switch to mono mode by pushing the button **56** “Stereo/Mono”.

If the station transmits an RDS signal, the name of the station is displayed shortly instead of the frequency. With the button **46** “RDS/Display”, you can access additional RDS information if the radio station supports it.

Station memory

Your radio can save 20 stations for each of the two radio frequency modes (FM and AM). You can conveniently select the saved stations with the push of a button.

Saving the stations manually

- Set the desired station as described above.
- Push the button **1** “PRO” or **62** “Audio Setup/Program”. The number of the first free memory slot will appear in the display panel.
- Select the desired memory slot number with the buttons **7** “I◄◄” and **6** “►►I” or the number keys “1...0”.
- Push the button **1** “PRO” or **62** “Audio Setup/Program” again.

The station has now been stored. The device will return to normal operation after five seconds of button inactivity.

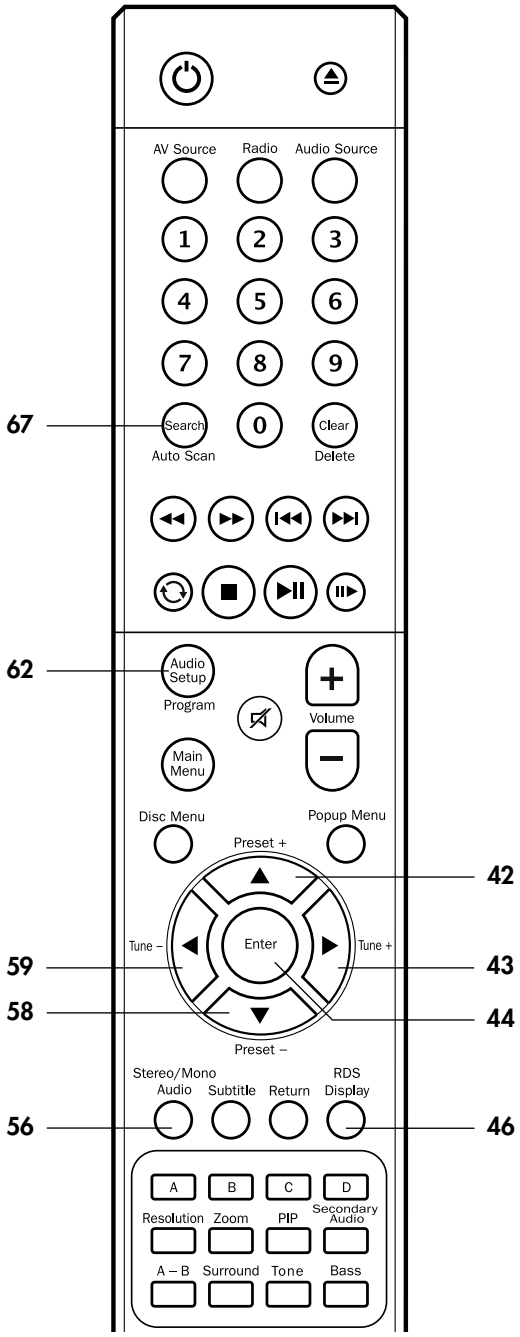
Saving stations automatically

- Push the button **67** “Search/Auto Scan” for approx. two seconds until station scanning starts.
  The radio will now search for stations with a sufficient signal and save them automatically. Previously saved stations are deleted in the process.

- If more than 20 stations have been found, the message “FULL” will appear on the display panel and scanning terminates.

Selecting stations from the memory

You can select the stations in the memory consecutively with the buttons **42** “▲/Preset+” and **58** “▼/Preset–” or directly with the number buttons.



Care and cleaning

Clean your receiver regularly with a soft, damp microfiber cloth. When doing so, please be absolutely sure to observe the following instructions:

Danger **Risk of electric shock!**

In contact with live parts, water can lead to electric shock or short circuit.

- Ensure that no liquid penetrates the unit.
- Disconnect the mains plug before cleaning.

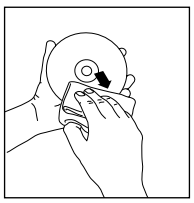
Attention **Risk of damage!**

Using the wrong cleaning materials may damage the delicate surface of the case.

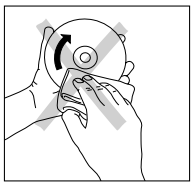
- If possible, only use plain water without any additives. In case of stubborn marks, a mild soap solution may be used.
- In no circumstances should caustic cleaning products, white spirit, thinners, petrol or similar be used for cleaning.

How to clean your Blu-rays/DVDs/CDs

To clean your CDs, only use cleaners certified for CDs.



If necessary, carefully wipe off the disc with a soft, lint-free cloth from the middle to the edge. In the process, hold the disc between your index finger and thumb of the other hand.



Touching the playback side of the CD could cause playback problems.

Troubleshooting

The following advice should help you to solve problems. If this doesn't work, the extensive FAQs on our website will surely provide you with support. Otherwise, please contact our hotline (see page 3). Take note of the warranty instructions.

Problem	Possible cause	Solution
The device doesn't work, the display is dark.	No power supply.	Check that the power plug is properly seated.
		Check the function of the socket with another device.
No CD/DVD/BD playback.	No disc inserted.	Insert a CD/DVD/BD.
	Disc inserted upside down.	Insert the disc with the labelled side up.
	Region code of the DVD/BD does not correspond to the device.	Insert DVD/BD with the correct region code.
	CD/DVD/BD damaged or dirty.	Clean or change disc.
	Condensation in the device.	Remove the disc and do not use the device for one to two hours.
No picture	The television is not turned on.	Turn on the television.
	The wrong AV input jack has been selected on the television.	Select the right AV input jack on the television (e.g. HDMI 1).
	Incorrect HDMI resolution set on the receiver.	Check the settings and if necessary, change them (see page "Display" menu). To get a picture, create a video link to the television set via **21** VIDEO (see page 11) if applicable.
	The connector cable is incorrectly wired or loose.	Correct the cable connections.
	Connector cable damaged.	Replace the connector cable.
Picture fuzzy/distorted.	CD/DVD/BD damaged or dirty.	Clean or change disc.
	Incorrect colour standard (PAL/NTSC) set on the television or receiver.	Set the colour standard (PAL/NTSC) again (page 15). PAL is the correct standard in Germany and Western Europe (except France).
	Fault caused by interconnected devices such as video recorders.	Connect the devices directly.
	Picture format of the receiver has the wrong setting.	Set the picture format correctly (see page 15).
"NO DISC" on the display	CD/DVD/BD damaged, dirty, incompatible or inserted the wrong way around.	Clean or change disc.
Skipping to the next track or chapter doesn't work.	Some DVDs do not permit skipping, for example during the warning notice at the beginning.	Continue playback.
	The DVD only has one chapter.	Alternative: Fast playback.
No audio output or not all audio channels are audible.	Speaker incorrectly wired.	Check and correct wiring.
	Audio settings incorrect.	Set the audio correctly (see page 15 and 18).
	Incorrect disc audio track selected.	Push the button **56** "Audio" and select another audio language.
	Receiver muted ("MUTE").	Push the button **39** 🔇 to deactivate mute.
	The playback speed is accelerated or slowed down.	Push the PLAY button to switch to normal playback.

Problem	Possible cause	Solution
No or distorted music playback.	The data storage device contains files in a format other than MP3 or WMA.	Delete the incorrect files.
	File damaged.	Delete or skip file.
Remote control doesn't work.	No line of sight between the remote control and the device.	Remove any obstacles.
	Remote control not pointed properly.	Point the remote control towards the device.
	Batteries inserted in the remote control with incorrect polarity.	Insert the batteries the right way around (see diagram in the battery compartment).
	Batteries in the remote control are empty.	Insert new batteries.
Disk tray does not open.	Wrong source is selected.	Select the source „DISC" (see page 13).

In the menu functions, there are many parameters that complicate or even prevent normal operation in the event of incorrect settings. If you receiver is behaving "unusually", you can restart the device:
1. Push the button **15** "⏻" on the device.
2. Wait five seconds.
3. Push the button **15** "⏻" again.

If this doesn't help, you can reset the receiver to the factory default. This will set the parameters such as speaker size or level back to the normal values (see "System" menu on page 16).

Protecting the environment

Batteries and rechargeable batteries

Batteries and rechargeable batteries must not be disposed of with household waste!
Every consumer is required by law to bring all batteries and rechargeable batteries, whether they contain harmful substances*) or not, to a collection point run by the communal authority or borough or run commercially, so that they can be disposed of in an environmentally friendly manner.
Please only hand in fully discharged batteries and rechargeable batteries!

*) labelled with: Cd = Cadmium, Hg = Mercury, Pb = Lead

Disposing of the unit

Used units must not be disposed of with household waste!
If the unit is no longer operational, every consumer is required by law to dispose of used devices separately from household waste, e.g. at a collection point run by the communal authority borough. In this way it is ensured, that used devices are properly recycled and that negative consequences on the environment are avoided.
For this reason, electrical equipment is labelled with the displayed symbol.

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Technical data

Operating voltage:	220–240 V~, 50/60 Hz
Dimensions (W x H x D):	43 x 7.4 x 36 cm
Net weight:	4.75 kg

Technical changes reserved!

You can find further technical data in the product description on our website at www.teufelaudio.com.

Technical changes reserved!

CE This product conforms with Council of the European Union guidelines 2004/108/EC and 2006/95/EC.

Teufel

For questions, suggestions or other issues please contact our customer service department:

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